

BRUHAT BENGALURU MAHANAGARA PALIKE

**Name of work : IMPROVEMENTS AND ASPHALTING TO CROSS ROADS AT AGRAHARA
LAYOUT INSTEAD OF KOGILU LAYOUT IN WARD NO 05**

ESTIMATE FOR ROAD WORKS IN WARD NO. 03									
Sl No	Description of work	No	Dimensions			Quantity	Estimate		20000000
			L	B	D		Rate	Unit	Amount
1	2	3	4	5	6	7	8	9	10
1	KSRB 2-1.1 : Earthwork in surface excavation in ordinary soil for levelling and lowering the ground manually (other than foundation of buildings, culverts, road drains and trenches of pipe lines and cables) and removing the excavated stuff to a distance not exceeding 50m and lift upto 1.5m, excavated surface levelled and neatly dressed, disposed earth to be levelled after breaking of clods and neatly dressed as per specifications. specification. No. KBS 2.1(a) / 2.3.1 P-5 lt,2.1								
	Basic Rate	157.00							
	Area Weightage 6%	9.42							
	Total	166.42							
	9TH MAIN	1	259.00	5.60	0.20	290.08			
	4TH CROSS	1	127.50	4.50	0.20	114.75			
	10TH CROSS	1	323.30	4.20	0.20	271.57			
	11TH CROSS	1	208.30	4.20	0.20	174.97			
	12TH CROSS	1	488.80	4.20	0.20	410.59			
	13TH CROSS	1	271.30	4.30	0.20	233.32			
	14TH CROSS	1	192.70	4.20	0.20	161.87			
	15TH CROSS	1	187.60	4.20	0.20	157.58			
	16TH CROSS	1	189.60	4.20	0.20	159.26			
	17TH CROSS	1	234.70	4.20	0.20	197.15			
	19TH CROSS	1	139.80	4.20	0.20	117.43			
	20TH CROSS	1	99.50	4.35	0.20	86.57			
	4TH MAIN	1	384.00	4.50	0.20	345.60			
	5TH MAIN	1	228.00	4.30	0.20	196.08			
	6TH MAIN	1	178.50	4.25	0.20	151.73			
		1	372.00	4.25	0.20	316.20			
			Total			3384.75	166.42	Cum	563291
2	KSRB 2-2.2 : Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications. specification. No. KBS 2.1(b) / 2.3.5. P-3 lt,2.4								
	Basic Rate	283.00							
	Area Weightage 6%	16.98							
	Total	299.98							
	9TH MAIN	2	259.00	0.80	0.30	124.32			
	4TH CROSS	2	127.50	0.80	0.30	61.20			
	10TH CROSS	2	323.30	0.80	0.30	155.18			
	11TH CROSS	2	208.30	0.80	0.30	99.98			
	12TH CROSS	2	488.80	0.80	0.30	234.62			
	13TH CROSS	2	271.30	0.80	0.30	130.22			
	14TH CROSS	2	192.70	0.80	0.30	92.50			
	15TH CROSS	2	187.60	0.80	0.30	90.05			
	16TH CROSS	2	189.60	0.80	0.30	91.01			
	17TH CROSS	2	234.70	0.80	0.30	112.66			
	19TH CROSS	2	139.80	0.80	0.30	67.10			
	20TH CROSS	2	99.50	0.80	0.30	47.76			
	4TH MAIN	2	384.00	0.80	0.30	184.32			

	5TH MAIN	2	228.00	0.80	0.30	109.44			
	6TH MAIN	2	178.50	0.80	0.30	85.68			
		2	372.00	0.80	0.30	178.56			
	D	2	259.00	0.60	0.30	93.24			
		2	127.50	0.60	0.30	45.90			
		2	323.30	0.60	0.30	116.39			
		2	208.30	0.60	0.30	74.99			
		2	488.80	0.60	0.30	175.97			
		2	258.00	0.60	0.30	92.88			
				Total		2463.97	299.98	Cum	739143
3	KSRRB M100-1 Loading and unloading of stone boulder/stone aggregates/sand/.kanker/moorum. KSRRB M100-1:Placing tipper at loading point, loading with front end loader, dumping, turning for return trip, excluding time for haulage and return trip complete as per specification MORTH Chapter 1 (P-130, It.No. 17.1)								
	Basic Rate Conveying for 10 km	100.00							
	Total	100.00							
	QtyVid ItemNo. 1					3384.75			
	QtyVid ItemNo. 2					2463.97			
					Total	5848.72	100.00	Cum	584873
4	KSRRB 500-3. Scarifying existing stone metal layer upto 75mm thick along with their bituminous surface, picking up scarified materials and stacking of old serviceable materials with lead of 100 m. sequential spreading of the salvaged aggregates with fresh aggregates on prepared base and consolidating as per water bound macadam specifications including cost of all labour, HOM of machineries complete as per specifications. MORTH specification clause 501 P-161It,21.3								
	Basic Rate	87.00							
	Area Weightage 6 %	5.22							
	Total	92.22							
	9TH MAIN	1	259.00	2.70		699.30			
	4TH CROSS	1	127.50	2.70		344.25			
	10TH CROSS	1	323.30	2.70		872.91			
	11TH CROSS	1	208.30	2.70		562.41			
	12TH CROSS	1	488.80	2.70		1319.76			
	13TH CROSS	1	271.30	2.70		732.51			
	14TH CROSS	1	192.70	2.70		520.29			
	15TH CROSS	1	187.60	2.70		506.52			
	16TH CROSS	1	189.60	2.70		511.92			
	17TH CROSS	1	234.70	2.70		633.69			
	19TH CROSS	1	139.80	2.70		377.46			
	20TH CROSS	1	99.50	2.70		268.65			
	4TH MAIN	1	384.00	2.70		1036.80			
	5TH MAIN	1	228.00	2.70		615.60			
	6TH MAIN	1	178.50	2.70		481.95			
		1	372.00	2.70		1004.40			
				Total		10488.42	92.22	Sqm	967243
5	KSRRB M400- Wet Mix Macadam KSRRB M400-17. Providing, laying, spreading and compacting crushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406 P-157It,20.18								
	Basic Rate	1668.00							
	Area Weightage 6%	100.08							
	Total	1768.08							
	9TH MAIN	2	259.00	0.80	0.25	103.60			

	4TH CROSS	2	127.50	0.80	0.25	51.00			
	10TH CROSS	2	323.30	0.80	0.25	129.32			
	11TH CROSS	2	208.30	0.80	0.25	83.32			
	12TH CROSS	2	488.80	0.80	0.25	195.52			
	13TH CROSS	2	271.30	0.80	0.25	108.52			
	14TH CROSS	2	192.70	0.80	0.25	77.08			
	15TH CROSS	2	187.60	0.80	0.25	75.04			
	16TH CROSS	2	189.60	0.80	0.25	75.84			
	17TH CROSS	2	234.70	0.80	0.25	93.88			
	19TH CROSS	2	139.80	0.80	0.25	55.92			
	20TH CROSS	2	99.50	0.80	0.25	39.80			
	4TH MAIN	2	384.00	0.80	0.25	153.60			
	5TH MAIN	2	228.00	0.80	0.25	91.20			
	6TH MAIN	2	178.50	0.80	0.25	71.40			
		2	372.00	0.80	0.25	148.80			
	ROAD								
	9TH MAIN	1	259.00	5.60	0.225	326.34			
	4TH CROSS	1	127.50	4.50	0.225	129.09			
	10TH CROSS	1	323.30	4.20	0.225	305.52			
	11TH CROSS	1	208.30	4.20	0.225	196.84			
	12TH CROSS	1	488.80	4.20	0.225	461.92			
	13TH CROSS	1	271.30	4.30	0.225	262.48			
	14TH CROSS	1	192.70	4.20	0.225	182.10			
	15TH CROSS	1	187.60	4.20	0.225	177.28			
	16TH CROSS	1	189.60	4.20	0.225	179.17			
	17TH CROSS	1	234.70	4.20	0.225	221.79			
	19TH CROSS	1	139.80	4.20	0.225	132.11			
	20TH CROSS	1	99.50	4.35	0.225	97.39			
	4TH MAIN	1	384.00	4.50	0.225	388.80			
	5TH MAIN	1	228.00	4.30	0.225	220.59			
	6TH MAIN	1	178.50	4.25	0.225	170.69			
		1	372.00	4.25	0.225	355.73			
					Total	5361.68	1768.08	Cum	9479886
6	KSRRB M500-6. Providing and applying primer coat with S.S bitumen emulsion on prepared surface of granular base such as WMM including clearing of road surface and spraying primer at the rate of 0.60 kg/sqm using mechanical means complete as per specifications. P-161 It, 21.6								
	Basic Rate	26.00							
	Area Weightage 6%	1.56							
	Total	27.56							
	9TH MAIN	1	259.00	5.60		1450.40			
	4TH CROSS	1	127.50	4.50		573.75			
	10TH CROSS	1	323.30	4.20		1357.86			
	11TH CROSS	1	208.30	4.20		874.86			
	12TH CROSS	1	488.80	4.20		2052.96			
	13TH CROSS	1	271.30	4.30		1166.59			
	14TH CROSS	1	192.70	4.20		809.34			
	15TH CROSS	1	187.60	4.20		787.92			
	16TH CROSS	1	189.60	4.20		796.32			
	17TH CROSS	1	234.70	4.20		985.74			
	19TH CROSS	1	139.80	4.20		587.16			
	20TH CROSS	1	99.50	4.35		432.83			
	4TH MAIN	1	384.00	4.50		1728.00			
	5TH MAIN	1	228.00	4.30		980.40			
	6TH MAIN	1	178.50	4.25		758.63			

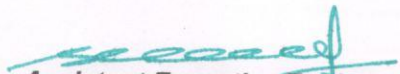
		1	372.00	4.25		1581.00			
				Total		16923.75	27.56	Sqm	466419
7	KSRRB M500-19. Providing and laying bituminous concrete using crushed aggregates of specified grading, premixed with bituminous binder a and filler, transporting the hot mix to work site, laying with a paver finisher with the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 509 complete in all respects as per specifications. using 40/60 TPH capacity H.M.P. with Mechanical Paver Gr-II (30 mm to 45 mm) with 5.4% VG-30 Bitumen P-164, It 21.22.6								
	Basic Rate	6683.00							
	Area Weightage 6%	400.98							
	Total	7083.98							
	9TH MAIN	1	259.00	5.60	0.04	58.02			
	4TH CROSS	1	127.50	4.50	0.04	22.95			
	10TH CROSS	1	323.30	4.20	0.04	54.31			
	11TH CROSS	1	208.30	4.20	0.04	34.99			
	12TH CROSS	1	488.80	4.20	0.04	82.12			
	13TH CROSS	1	271.30	4.30	0.04	46.66			
	14TH CROSS	1	192.70	4.20	0.04	32.37			
	15TH CROSS	1	187.60	4.20	0.04	31.52			
	16TH CROSS	1	189.60	4.20	0.04	31.85			
	17TH CROSS	1	234.70	4.20	0.04	39.43			
	19TH CROSS	1	139.80	4.20	0.04	23.49			
	20TH CROSS	1	99.50	4.35	0.04	17.31			
	4TH MAIN	1	384.00	4.50	0.04	69.12			
	5TH MAIN	1	228.00	4.30	0.04	39.22			
	6TH MAIN	1	178.50	4.25	0.04	30.35			
		1	372.00	4.25	0.04	63.24			
				Total		676.95	7083.98	Cum	4795501
8	KSRRB M800-13: Road marking with hot applied thermoplastic compound with reflect rising glass beads on bituminous surface- providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface to level, uniform and free from streaks and holes complete as per specifications. MORTH specification No. 803, No. 1974 (P.No.185 & I.No.24.15)								
	Basic Rte	512.00							
	Area Weightage 6%	30.72							
	Total	542.72							
	9TH MAIN	2	259.00	0.10		51.80			
	4TH CROSS	2	127.50	0.10		25.50			
	10TH CROSS	2	323.30	0.10		64.66			
	11TH CROSS	2	208.30	0.10		41.66			
	12TH CROSS	2	488.80	0.10		97.76			
	13TH CROSS	2	271.30	0.10		54.26			
	14TH CROSS	2	192.70	0.10		38.54			
	15TH CROSS	2	187.60	0.10		37.52			
	16TH CROSS	2	189.60	0.10		37.92			
	17TH CROSS	2	234.70	0.10		46.94			
	19TH CROSS	2	139.80	0.10		27.96			
	20TH CROSS	2	99.50	0.10		19.90			
	4TH MAIN	2	384.00	0.10		76.80			
	5TH MAIN	2	228.00	0.10		45.60			
	6TH MAIN	2	178.50	0.10		35.70			
		2	372.00	0.10		74.40			
				Total		776.92	542.72	Sqm	421651

Total Construction Amount			18018007
9% KRIDL charges			1621621
2% of INSCE			360360
SUB TOTAL			19999988
Miscellaneous & Rounding off		L/S	12
Total Rs:			20000000

CERTIFICATE

1. The work spot has been inspected and found to be necessary
2. The work spot comes under BBMP Limits
3. The provisions made in the estimate are necessary and minimum
4. The estimate is based on CSR of 2016-2017


Assistant Engineer

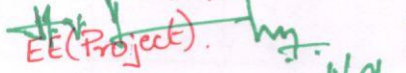

Assistant Executive Engineer
Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore


Executive Engineer
Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore-92

Administrative Approval

Accorded For 200 lakhs.
Head of A/C P-3112
CER NO : 42 Dt: 4/8/17


4/8/17


EE(Project)
4/8/17

Technical Sanction
Accorded For 200.00 lakhs
Head of A/C P-3112
CER NO : 173.A Dt: 2/8/2017


TA
CE (YNK)